UCRL-JC-125123 Abs

PROCESSING AND PROPERTIES OF NIF SCALE TARGETS USING INTERFACIAL POLYCONDENSATION

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We have been examining the use of the interfacial polycondensation reaction between an organic phase droplet of isophthaloyl dichloride suspended in a surrounding basic aqueous bath of poly(*p*-vinylphenol) to produce NIF scale polymer capsules. In this poster we will discuss process procedures, including solvent choice, droplet generation, agitation, solvent exchanges, and drying. We will also present parametric studies of wall growth as a function of reactant concentrations, droplet size and time.

****This work was performed under the auspices of the U.S. Department of Energy by Lawrence Livermore National Laboratory under contract No. W-7405-ENG-48.**